

5                    **SYNTHESIS OF ANTI-ESTROGENIC AND OTHER THERAPEUTIC**  
                      **STERIODS FROM 21-HYDROXY-19-NORPREGNA-4-EN-3-ONE**

**ABSTRACT OF THE DISCLOSURE**

10                Syntheses of steroids such as 3-hydroxy-7 $\alpha$ -methyl-21-[2'-methoxy-4'-  
(diethylaminomethyl)-phenoxy]-19-norpregna-1,3,5(10)triene citrate ("SR 16234") and analogs  
thereof are provided, wherein 21-hydroxy-19-norpregna-4-en-3-one serves as a starting material  
or intermediate. The latter compound may be readily prepared from estrone-3-methyl ether.  
15                Certain intermediates in these syntheses also have value as therapeutic agents, for example in the  
treatment of prostate disorders such as prostatic cancer.